

Title (en)
SYSTEM AND METHOD FOR VIDEO ERROR CONCEALMENT

Title (de)
SYSTEM UND VERFAHREN ZUM VERBERGEN VON VIDEOFEHLERN

Title (fr)
SYSTEME ET PROCEDE DE MASQUAGE DES ERREURS VIDEO

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Application
EP 02761446 A 20020823

Priority
• US 0226577 W 20020823
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Abstract (en)
[origin: US2003039312A1] The present invention provides, in one embodiment, a system and method for concealing video errors. The system encodes, reorders, and packetizes video information into video data packets for transmission over a communication network such that the system conceals errors caused by lost video data packets when the system receives, depacketizes, orders, and decodes the data packets. In one embodiment, the system and method encodes and packetizes video information, such that adjacent macroblocks are not placed in the same video data packets. Additionally, the system and method may provide information accompanying the video data packets to facilitate the decoding process. An advantage to such a scheme is that errors due to video data packet loss are spatially distributed over a video frame. Thus, if regions of data surrounding a lost macroblock are successfully decoded, the decoder may predict motion vectors and spatial content with a higher degree of accuracy, which leads to higher video quality.

IPC 8 full level
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CPC (source: BR EP KR NO US)
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Citation (search report)
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• See references of WO 03019939A1

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US 2003039312 A1 20030227; **US 7239662 B2 20070703**; AU 2002326713 B2 20061214; BR 0212000 A 20040928; BR PI0212000 B1 20171212; CA 2457882 A1 20030306; CA 2457882 C 20090602; CN 100581238 C 20100113; CN 1679330 A 20051005; EP 1421787 A1 20040526; EP 1421787 A4 20081008; IL 160476 A0 20040725; IL 160476 A 20090211; JP 2005501488 A 20050113; JP 2012070391 A 20120405; JP 4881543 B2 20120222; KR 100691307 B1 20070312; KR 20040027982 A 20040401; MX PA04001656 A 20041122; NO 20040754 L 20040423; NO 20161599 A1 20040423; NO 339116 B1 20161114; NO 343205 B1 20181203; NZ 531863 A 20051028; RU 2004105598 A 20050720; RU 2291586 C2 20070110; US 2007230583 A1 20071004; WO 03019939 A1 20030306; ZA 200401377 B 20050727

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